



Putting You In Control

# ValVue® OVD

## Online Valve Diagnostics

### Equipment Health Monitoring for Improved Plant Performance



## Control Valve Performance Monitoring

ValVue® OVD is a software based technology for monitoring and diagnosing the performance of any control valve during normal process operations. This solution for final control elements improves plant integrity, plant efficiencies and plant uptime resulting in reduced operational expenditures and increased plant profitability.

- Improve plant uptime by diagnosing and validating the health of control valves without disturbing the process
- Diagnose control valves equipped with SVI® series or FVP110 product as well as your control valves equipped with any HART® or Foundation® Fieldbus positioner
- Flexible implementation such as Point-To-Point, with Multiplexers or Integrated With Leading Asset Management Software
- Automated data collection and analysis resulting in root cause identification
- Built-in database for optimal information management
- Better manage your resources with the Activity Report

# ValVue® OVD

## Online Valve Diagnostics



### Key Features

- Non intrusive for normal process operation
- Read-only field device data capability for cyber safety
- Configurable schedule for valve monitoring
- Automated data analysis resulting in root cause identification
- HART® and FF support for any digital valve positioner<sup>(1)</sup>
- Patented data analysis with valve performance prediction models
- Facilitated planning of shutdowns using built-in reports
- Results automatically saved & logged in a database
- Stand alone implementation or integrated
- Data export to Microsoft® Excel®
- Historical viewing of key performance indicators (KPI)

### Supported Communication Protocol

- HART (revision 5,6,7 )
- Foundation® Fieldbus (H1, HSE)

### Supported External Hardware for Standalone Application

- HART Modem (USB, Serial, Bluetooth)
- MTL Multiplexer
- PCMCIA FF Card

### Key Performance Indicators (KPI) with Pass/Fail Criteria <sup>(2)</sup>

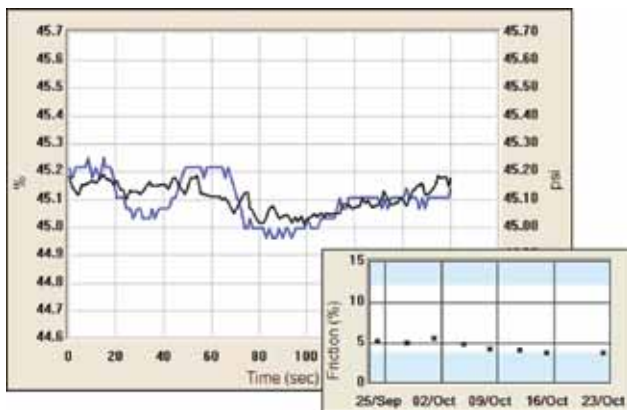
- Valve Friction
- Spring Initial
- Spring Final
- Spring Rate
- Lag
- Response Time
- Setpoint Offset
- Setpoint Error
- Position Overshoot
- Oscillation Frequency

### Supported Digital Valve Positioners

- SVI®
- SVI II (Standard and Advanced Diagnostics)
- SVI II AP (Standard and Advanced Diagnostics)
- FVP (Standard and Advanced Diagnostics)
- Fisher® DVC5000 / DVC6000 (Does not require PD tier)
- Valtek® Logix Series
- Siemens SIPART
- Most Digital Valve Positioners with HART Command #3 support
- Any Foundation Fieldbus positioner

### Integration

- AMS™ from Emerson Process Management™ (AMS OPC server required)
- PRM® from Yokogawa® Corporation



Requires as little as 0.20% setpoint variation to measure the control valve KPI's

<sup>(1)</sup> Non Masonellan device must support HART Command #3

<sup>(2)</sup> Certain KPI require availability of actuator pressure measurement

### Operating System and Host Support

WINDOWS OPERATING SYSTEM				EMERSON AMS DEVICE MANAGER					YOKOGAWA PRM	
XP SP3	Vista SP1	2000 SP4	Server 2003 SP1	10.X	9.X	8.X	7.X	6.X	3.X	>=2.20
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

